



**AAU Undergraduate STEM Education Initiative
Network Conference
October 2-3, 2017**

fhi360 Conference Center, 1825 Connecticut Avenue NW, 8th Floor, Washington, DC, 20009

MONDAY, October 2

8:15 – 8:45 a.m.
8th Floor Foyer

BREAKFAST

8:45 – 9:00 a.m.
Academy Hall

Welcome

Tobin Smith, Vice President for Policy, AAU

Emily Miller, Associate Vice President for Policy, AAU

9:00 – 10:15 a.m.
Academy Hall

Progress Toward Achieving Systemic Change: A Five-Year Status Report on the AAU Undergraduate STEM Education Initiative

Presenter: **Tobin Smith**, Vice President for Policy, AAU

Respondent: **James Fairweather**, Professor Emeritus, Higher, Adult and Lifelong Education, Michigan State University

Following a brief presentation, participants will engage in small group discussions about the report.

Ultimately systemic and sustainable change in STEM education requires a shift in cultural expectations and norms. Section 4 identifies several factors that AAU identified as key to successful undergraduate STEM educational reforms.

- *Are these “cultural shifts” occurring on your campus?*
- *How are they being communicated, supported, measured?*
- *What other evidence of cultural change have you seen?*

10:15 – 10:45 a.m.

BREAK

10:45 a.m. – 12:00 p.m.
Academy Hall

AAU STEM Network Mini-Grant Announcements

Representatives from each of the twelve AAU institutions that have received AAU STEM Network Mini-grants will briefly describe the focus of their projects. Information about the second AAU STEM Network Mini-grant call for proposals will also be given.

Moderator: **Emily Miller**, Associate Vice President for Policy, AAU

12:00 – 1:30 p.m.
8th Floor Foyer

LUNCH

MONDAY, October 2

1:30 – 3:00 p.m.

Concurrent Panel Sessions

Faculty members and institutional leaders from the AAU STEM Project Site & Network will address key themes related to improving undergraduate STEM education. Conference participants may choose the session they would like to attend.

1:30 – 3:00 p.m.

Academy Hall

Session 1: Supporting Faculty Members' Efforts to Improve Undergraduate STEM Education

This session will engage participants in a discussion around a selection of institutional efforts that actively engage faculty members in the improvement of undergraduate STEM education. For example, multiple faculty learning communities linked by a common cross-cutting theme, a learning analytic fellows program that provides faculty members with data to evaluate and support innovations in teaching and learning, and department action teams working intentionally with multiple faculty members from the same unit.

Moderator: Emily Miller, Associate Vice President for Policy, AAU

Panelists: Joel Corbo, University of Colorado Boulder
Jane Hunter, The University of Arizona
George Rehrey, Indiana University Bloomington

1:30 – 3:00 p.m.

Balcony C

Session 2: Redesigning the Mission of Your Teaching and Learning Center

This session will discuss the shift to a more active institutional leadership role by teaching and learning centers. This includes the focus on student success and the effectiveness of undergraduate education, as well as the ability to facilitate the cultural shift of having faculty members work with other faculty members on scaled improvements to undergraduate education, and coordinate and/or centralize the work occurring across a number of units in the area of teaching and learning.

Moderator: Jim Fairweather, Professor Emeritus, Higher, Adult and Lifelong Education, Michigan State University

Panelists: Michael Dennin, University of California, Irvine
Nancy Niemi, Yale University

1:30 – 3:00 p.m.

Vista Room A

Session 3: Measuring Student Learning Outcomes

This session will present three strategies used to integrate and evaluate evidence-based teaching techniques into introductory science courses. Speakers will address the types of student learning outcomes they are measuring, the timeline of their efforts, and the future challenges they are addressing as they work to scale programs. Participants will have the opportunity to engage in small group discussions.

Moderator: Linda Slakey, Senior Advisor to AAU

Panelists: Kelly Hogan, University of North Carolina at Chapel Hill
Paul Irving, Michigan State University
David Targan, Brown University

MONDAY, October 2

1:30 – 3:00 p.m.

Balcony B

Session 4: Recognizing our Diverse Student Populations: Supporting Inclusive Teaching

This session will discuss strategic efforts by teaching and learning centers to help faculty members better understand the diverse backgrounds of the students enrolled in their introductory STEM courses. The discussion will also address how teaching and learning centers are working with faculty members to design inclusive classrooms learning spaces.

Moderator: Toby Smith, Vice President for Policy, AAU

Panelists: Marco Molinaro, University of California, Davis
Cassandra Horii, California Institute of Technology

1:30 – 3:00 p.m.

Vista Room B

Session 5: Undergraduate Students as Learning Assistants

This session will discuss ways in which institutions can include undergraduate students in instructional roles. The discussion will also address ways to support undergraduate students so they are effective in these roles. It will be informative for both individuals on campuses that have well-established undergraduate learning assistant/peer-learning efforts, as well as individuals at institutions where such efforts are at their start.

Moderator: Tara King, Higher Education Project Coordinator, AAU

Panelists: Julie McGurk, University of Pennsylvania
Gina Frey, Washington University in St. Louis
Michael Palmer, University of Virginia

3:00 – 3:30 p.m.

BREAK

3:30 – 4:00 p.m.

Academy Hall

Identify Emerging Issues & Ask AAU Questions

Given what you have heard, learned and talked about today, identify an emerging issue you would like to discuss with others during roundtable breakfast discussion tomorrow. Please also fill out an "Ask AAU Question" to be answered during the AAU Future Directions Session tomorrow.

4:00 – 5:00 p.m.

Academy Hall

AAU STEM Network Flash Talks

4:00 – 4:20 p.m.

Department Evaluation of Faculty Teaching Rubric

Andrea Greenhoot, The University of Kansas

4:20 – 4:40 p.m.

Foundational Course Initiative

Meg Bakewell, University of Michigan

4:40 – 5:00 p.m.

Active Learning Initiative

Julia Thom-Levy, Cornell University

6:00 – 8:00 p.m.

1835 18th Street NW

Networking Dinner at Lauriol Plaza

Hearty hors d'oeuvres will be provided. Cocktails, beer, and wine will be available.

TUESDAY, October 3

8:00 – 8:45 a.m.

*8th Floor Foyer /
Academy Hall*

Breakfast and Emerging Issues Discussion

Each table in Academy Hall will have a topic for discussion that has been identified as an emerging issue. Conference participants may choose the table discussion they would like to join.

8:45 – 10:00 a.m.

Academy Hall

Keynote Address

Introduction: **Linda Slakey**, Senior Advisor to AAU

Speaker: **Robin Wright**, Division Director for the Division of Undergraduate Education at the National Science Foundation

10:00 – 10:30 a.m.

Academy Hall

AAU Future Directions

Toby Smith, AAU Vice President for Policy and **Emily Miller**, AAU Associate Vice President for Policy will discuss the current and proposed future projects related to the AAU Undergraduate STEM Education Initiative and answer questions from the audience.

10:30 – 10:45 a.m.

BREAK

10:45 – 11:45 a.m.

Academy Hall

Communicating Improvements to Undergraduate Education to Policy Makers and the Public

A panel consisting of federal relations experts will provide participants with strategies to develop compelling stories to advocate for the continued improvement of undergraduate STEM education to industry leaders, federal agencies, governors, state legislatures, Congress, and the general public.

Moderator: **Toby Smith**, Vice President for Policy, AAU

Panelists: **Bill Andresen**, Associate Vice President for Federal Relations, University of Pennsylvania

Beau Mills, Director of Federal Affairs, University of North Carolina at Chapel Hill

11:45 a.m. – 12:45 p.m.

8th Floor Foyer

LUNCH

“Get Ready to Go to the Hill.” Join your Federal Relations Officer for lunch and prepare for your Hill meeting. Participants not scheduled for a Hill meeting can continue to network.

12:45 p.m. –

8th and 9th Floors

Continuing the Conversations

Meeting space at fhi360 will be available until 3 p.m. to collaborate and network.

- **Hill Meetings**
- **Networking**
- **Mini-travel grant proposal development**
- **Share & demo analytical tools and visualizations**